

**HEAT EXCHANGE APPARATUS, SYSTEM, AND METHODS
REGARDING SAME**

Abstract of the Invention

5 A heat exchange apparatus (e.g., that may be used with an existing conduit
that is in a flooded state and a heat pump apparatus or other HVAC apparatus of a
thermal energy exchange system) includes at least one fluid source conduit
configured to replace a section of the existing conduit that is in a flooded state and
further configured to permit at least a portion of a fluid that is in the existing conduit
10 to flow therethrough. The heat exchange apparatus further includes at least one heat
transfer conduit having an inlet and outlet configured to be coupled to a heat pump
apparatus to form a closed loop therewith. Further, the heat transfer conduit is
further configured to communicate with the fluid source conduit for providing
thermal energy exchange between the fluid flowing through the fluid source conduit
15 and a fluid (e.g., a refrigerant, water or a water and anti-freeze mixture) flowing in
the closed loop.

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Sandy Truehart
Sandy Truehart
(Name)
(Signature) 11-25-03
(Date)